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172411

PARSONS

Summary of Creek Survey/

Creek Walk

St. Joseph Creek, Downers Grove, Illinois

December 2001

Illinois Environmental Protection Agency
Bureau of Land

3.1
12-01

TECHNICAL MEMORANDUM

December 17, 2001

To: Mr. Joe Dombrowski, Project Manager
Illinois Environmental Protection Agency

From: Mr. Rick Frendt, Project Manager
Parsons

Subject: Summary of Fieldwork Activities
Creek Walk/Creek Survey
Downers Grove, Illinois

RECEIVED
DEC 28 2001
IEPA/BOL

The Parsons Corporation (Parsons) has prepared the following memo to provide a summary of fieldwork activities completed from December 4 through December 6, 2001, in Downers Grove, Illinois. Mr. Drew McGowan and Ms. Shanthi Nataraj of Parsons conducted a creek walk/creek survey along the reach of St. Joseph Creek that flows through the Ellsworth Industrial Park during this period of field activity. During this survey Parsons documented all apparent structures and surface patterns, such as outfall pipes, spillways and bank erosion, that may have been migration pathways for surface spills. The following sections provide a synopsis of activities completed during this stage of the fieldwork for this project. All suspect locations are documented in the attached photolog and reference maps (Figures 1 through 1C).

December 4, 2001

On December 4, 2001, Parsons surveyed St. Joseph Creek from the Lockformer Facility to the Belmont Avenue bridge. The following is a list of items of specific interest noted during the creek walk:

- Locations 8 through 10: Small channel that appears to originate east of I-355 and to flow west through a small marsh to St. Joseph Creek.
- Location 9: Absorbent boom found draped across an outflow pipe originating from a ComEd station.
- Locations 22 through 25: Small tributary to creek leading from a facility south of the creek to the creek, just east of I-355.
- Location 24: Sheen on tributary shown in Locations 22 through 25.
- Location 34: Debris and sheen in stream running out of pipe into creek.
- Location 55: Sheen on creek surface.

December 6, 2001

On December 6, 2001, Parsons surveyed the upper reach of St. Joseph Creek, from the Belmont Avenue bridge to just past the old Downers Grove Sewage Disposal Center. The following is a list of items of specific interest noted during the creek walk:

- Location 68: Remains of a concrete weir or bridge abutment.
- Location 69: Former site of Downers Grove Sewage Disposal Center.

c: John Sherrill/Illinois EPA
File: 740473.01000



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: S

Date: 12/4/01

Location/Photo: 1 2-1

Photo By: S. Nataraj

Description: Starting point, looking south across creek at the corner of Front and Venture Streets.



Location: Downers Grove/Lisle

Direction: SE

Date: 12/4/01

Location/Photo: 2 2-3

Photo By: S. Nataraj

Description: View of St. Joseph Creek (creek) from starting point, concrete debris in creek.



Location: Downers Grove/Lisle

Direction: N

Date: 12/4/01

Location/Photo: 3 2-5

Photo By: S. Nataraj

Description: Manhole, no connecting outfall pipe in creek.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	4 2-6
Photo By:	S. Nataraj
Description:	Manhole, no connecting outfall pipe in creek.



Location:	Downers Grove/Lisle
Direction:	NE
Date:	12/4/01
Location/Photo:	5 1-25
Photo By:	D. McGowan
Description:	Outfall pipe along north bank.



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	6 1-24
Photo By:	D. McGowan
Description:	Outfall from previous photo, flowing water could be heard from pipe but no outflow was visible.



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	NA
Date:	12/4/01
Location/Photo:	7 2-10
Photo By:	S. Nataraj
Description:	Drain, just north of outfall pipe from Photo #5. A pipe connecting from the north is visible.



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	8 2-22
Photo By:	S. Nataraj
Description:	Surface water drainage, pipe runs under railroad tracks and connects to drain mentioned in Photo #7. This stream runs east and then north on the northern side of the railroad tracks.



Location:	Downers Grove/Lisle
Direction:	NA
Date:	12/4/01
Location/Photo:	9 2-23
Photo By:	S. Nataraj
Description:	Outfall pipe from ComEd transfer station. Note absorbent boom draped across channel (center and bottom). This outfall flows into stream mentioned in Photo #8.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk - Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: N

Date: 12/4/01

Location/Photo: 10 1-17

Photo By: D. McGowan

Description: Stream north of creek originates east of I-355 and flows through this small marsh. I-355 (center and right). ComEd transfer station (left).



Location: Downers Grove/Lisle

Direction: NE

Date: 12/4/01

Location/Photo: 11 2-12

Photo By: S. Nataraj

Description: Manhole, approximately 50' east of outfall in Photo #6.



Location: Downers Grove/Lisle

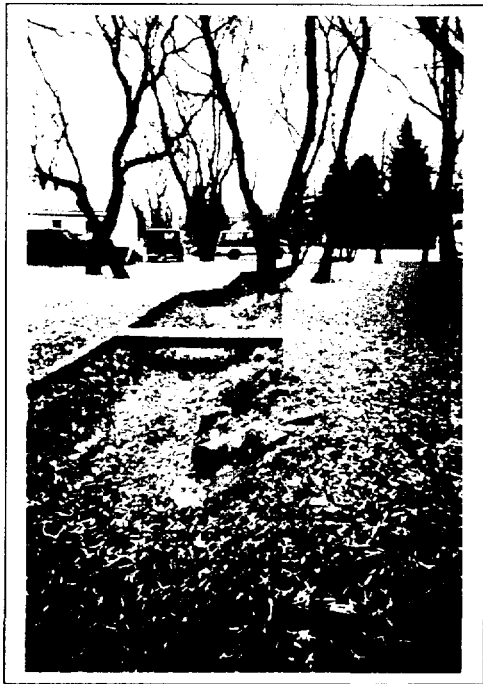
Direction: S

Date: 12/4/01

Location/Photo: 12 2-15

Photo By: S. Nataraj

Description: Surface drainage channel from the south.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: S

Date: 12/4/01

Location/Photo: 13 1-21

Photo By: D. McGowan

Description: Continuation of channel from Photo #12. Outfall pipes connect to drainage channel from residential properties.



Location: Downers Grove/Lisle

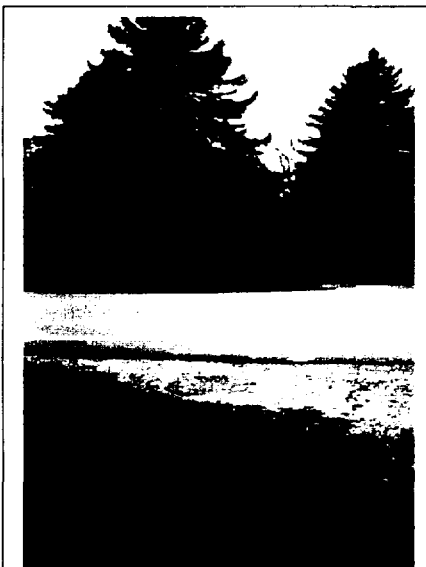
Direction: S

Date: 12/4/01

Location/Photo: 14 1-20

Photo By: D. McGowan

Description: Outfall (foreground); intersection of Front St. and Westview Ln. (background)



Location: Downers Grove/Lisle

Direction: W

Date: 12/4/01

Location/Photo: 15 1-19

Photo By: D. McGowan

Description: Sanitary manhole (foreground); storm drain (background). Storm drain appears to connect to outfall pipe in Photo #14. Sanitary manhole does not appear to connect to outfall pipe in Photo #14.

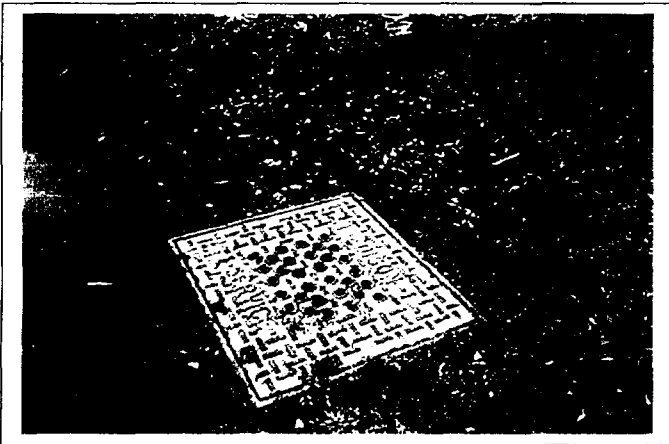


PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk - Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	NW
Date:	12/4/01
Location/Photo:	16 2-21
Photo By:	S. Nataraj
Description:	Manhole. no apparent outfall pipe to creek.



Location:	Downers Grove/Lisle
Direction:	
Date:	12/4/01
Location/Photo:	17 2-20
Photo By:	S. Nataraj
Description:	Manhole. no apparent outfall pipe to creek.



Location:	Downers Grove/Lisle
Direction:	E-SE
Date:	12/4/01
Location/Photo:	18 2-18
Photo By:	S. Nataraj
Description:	Bridge just west of I-355



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

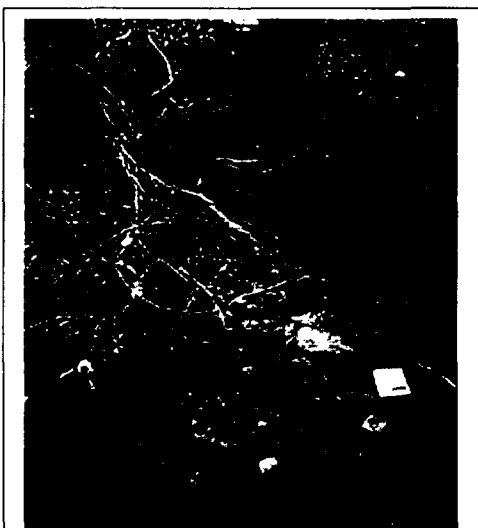
Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	SE
Date:	12/4/01
Location/Photo:	19 1-18
Photo By:	D. McGowan
Description:	Culvert under I-355, appears to drain into creek



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	20 1-3
Photo By:	D. McGowan
Description:	Outfall pipe from south bank.



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	21 1-4
Photo By:	D. McGowan
Description:	Erosion, apparently from surface runoff, south bank.

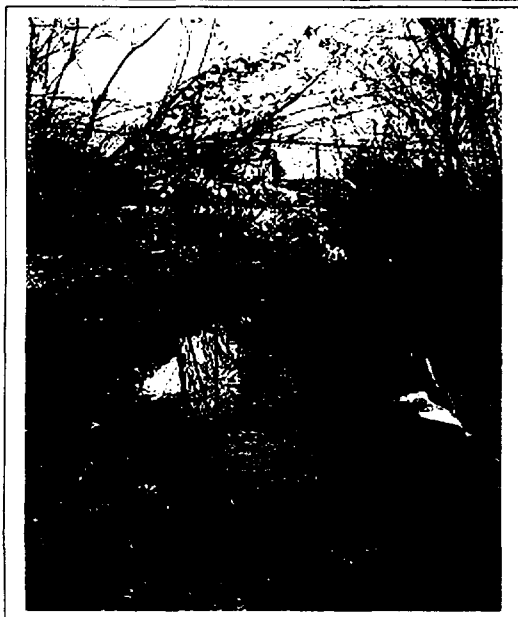


PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	22 1-1
Photo By:	D. McGowan
Description:	Surface stream that connects to creek.



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	23 6-1
Photo By:	S. Nataraj
Description:	Stream leading from facility south of creek, just east of I-355



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	24 4-27
Photo By:	D. McGowan
Description:	Stream source from photo #23, small sheen on surface.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	E
Date:	12/4/01
Location/Photo:	25 4-26
Photo By:	D. McGowan
Description:	Source of stream in Photo #24



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	26 3-24
Photo By:	S. Nataraj
Description:	Outfall pipe opposite Sanitary District building



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	27 1-5
Photo By:	D. McGowan
Description:	Outfall pipes and spillway from Sanitary District.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

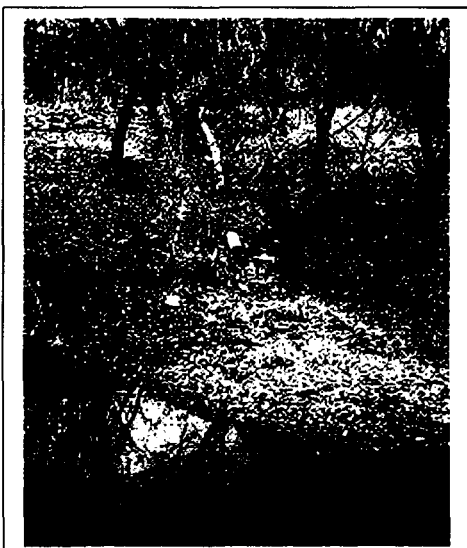
Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	28 3-18
Photo By:	S. Nataraj
Description:	Outfall pipe on south bank.



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	29 1-6
Photo By:	D. McGowan
Description:	Outfall pipe and spillway on north bank.



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	30 3-15
Photo By:	S. Nataraj
Description:	Pipe leading to creek from south bank.



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: N

Date: 12/4/01

Location/Photo: 31 1-7

Photo By: D. McGowan

Description: Small, apparently man-made basin at the head of galvanized pipe from photo #30.



Location: Downers Grove/Lisle

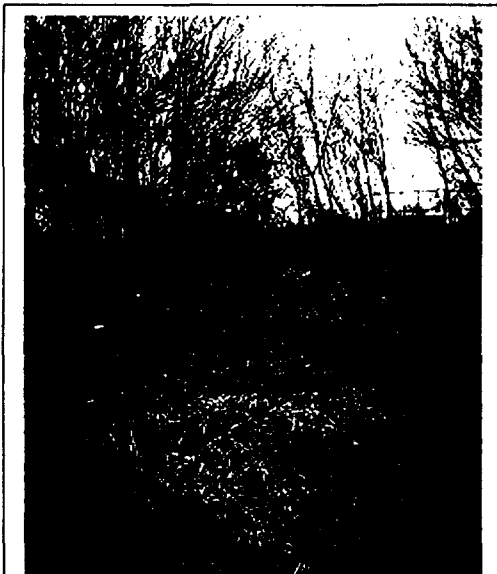
Direction: S

Date: 12/4/01

Location/Photo: 32 4-25

Photo By: D. McGowan

Description: Surface drainage to creek, sidewalk of Curtiss St. (bottom).



Location: Downers Grove/Lisle

Direction: S

Date: 12/4/01

Location/Photo: 33 1-8

Photo By: D. McGowan

Description: Stream running from catch basin (see Photo #35) to creek.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

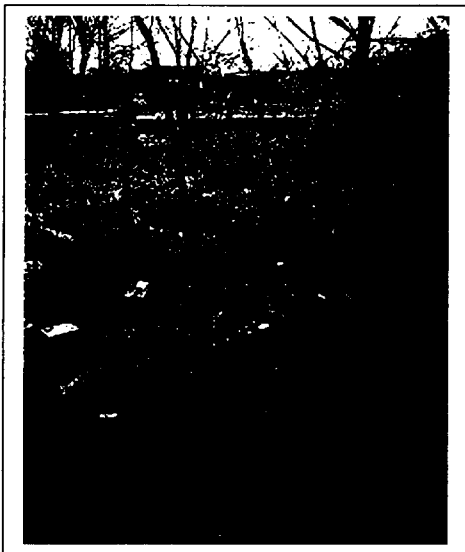
Direction:

Date: 12/4/01

Location/Photo: 34 1-9

Photo By: D. McGowan

Description: Debris and sheen in stream running out of clay pipe from small catch basin (see Photo #35)



Location: Downers Grove/Lisle

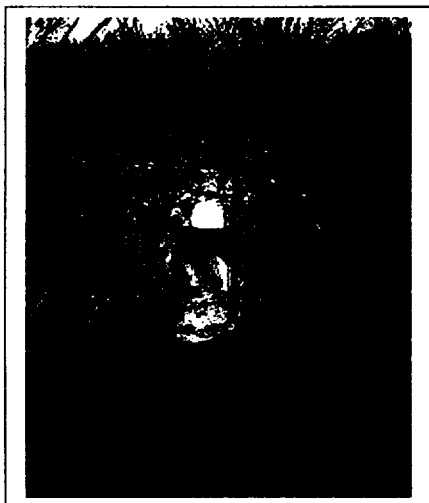
Direction: S

Date: 12/4/01

Location/Photo: 35 1-10

Photo By: D. McGowan

Description: Edge of small catch basin in Downers Grove property, constructed of landscaping blocks (background).



Location: Downers Grove/Lisle

Direction: N

Date: 12/4/01

Location/Photo: 36 1-11

Photo By: D. McGowan

Description: Outfall pipe and spillway.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: S

Date: 12/4/01

Location/Photo: 37 3-9

Photo By: S. Nataraj

Description: Outfall pipe and spillway (foreground); Dynagear facility (background).



Location: Downers Grove/Lisle

Direction: N

Date: 12/4/01

Location/Photo: 38 1-13

Photo By: D. McGowan

Description: Reinforced spillway.



Location: Downers Grove/Lisle

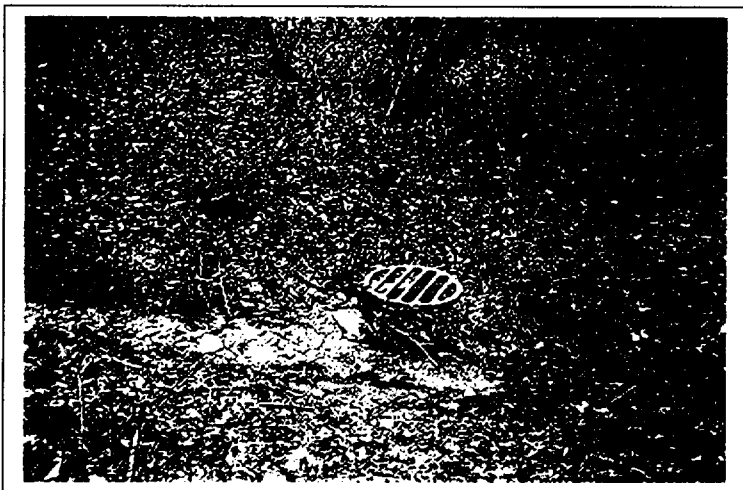
Direction: N

Date: 12/4/01

Location/Photo: 39 1-14

Photo By: D. McGowan

Description: Outfall pipe with concrete pipe exposed in eroded bank.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: NA

Date: 12/4/01

Location/Photo: 40 3-6

Photo By: S. Nataraj

Description: Catch basin/drain.



Location: Downers Grove/Lisle

Direction: S-SW

Date: 12/4/01

Location/Photo: 41 3-2

Photo By: S. Nataraj

Description: Spillway



Location: Downers Grove/Lisle

Direction: W

Date: 12/4/01

Location/Photo: 42 1-15

Photo By: D. McGowan

Description: Outfall pipe connecting
Dynagear parking lot to
catch basin.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	43 1-16
Photo By:	D. McGowan
Description:	Outfall pipe connecting catch basin (see Photo #42) to creek.



Location:	Downers Grove/Lisle
Direction:	SE
Date:	12/4/01
Location/Photo:	44 3-1
Photo By:	S. Nataraj
Description:	Bridge just east of I-355.



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk - Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: E

Date: 12/4/01

Location/Photo: 45 6-2

Photo By: S. Nataraj

Description: Looking east from Curtiss St. bridge (left). Arrow Gear Inc. on south side of creek (upper-right).



Location: Downers Grove/Lisle

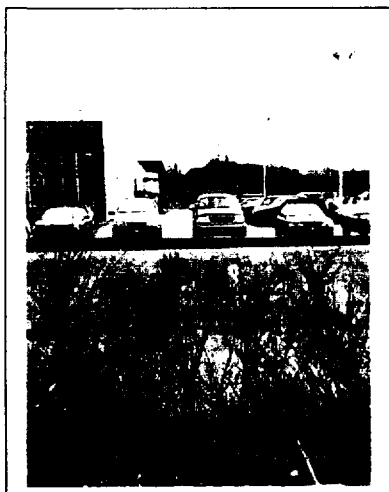
Direction: SE

Date: 12/4/01

Location/Photo: 46 4-22

Photo By: D. McGowan

Description: Outfall pipe from concrete reinforced south bank. Arrow Gear Inc. in background.



Location: Downers Grove/Lisle

Direction: S

Date: 12/4/01

Location/Photo: 47 6-3

Photo By: S. Nataraj

Description: Manhole, no connecting outfall pipe in creek. Arrow Gear Inc. in background.

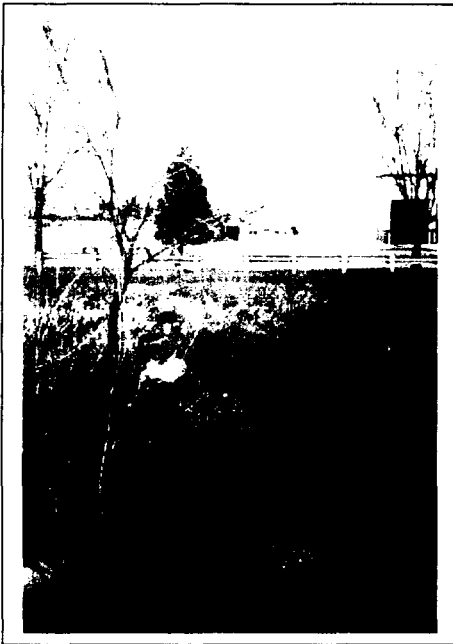


PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	48 6-5
Photo By:	S. Nataraj
Description:	Outfall pipe and spillway, western corner of Arrow Gear Inc. building in background.



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	49 4-21
Photo By:	D. McGowan
Description:	Outfall pipe and spillway in north bank, entrance to Rexnord Inc. in background (left of center).



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	50 4-20
Photo By:	D. McGowan
Description:	Three outfall pipes and associated spillways on north bank. Rexnord Inc. in background.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	51 6-6
Photo By:	S. Nataraj
Description:	Outfall pipe and spillway. Arrow Gear Inc. in background.



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	52 6-7
Photo By:	S. Nataraj
Description:	Outfall pipe and spillway. Arrow Gear main entrance in background.



Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	53 6-8
Photo By:	S. Nataraj
Description:	Manhole, no associated outfall pipe in creek. Outfall pipe and spillway on south bank (center). Arrow Gear Inc. in background.



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: NW

Date: 12/4/01

Location/Photo: 54 4-18

Photo By: D. McGowan

Description: Same outfall pipe and spillway from photo #53.



Location: Downers Grove/Lisle

Direction: NA

Date: 12/4/01

Location/Photo: 55 4-19

Photo By: D. McGowan

Description: Small sheen on water surface, no apparent connection to outfall pipes.



Location: Downers Grove/Lisle

Direction: S

Date: 12/4/01

Location/Photo: 56 6-10

Photo By: S. Nataraj

Description: Outfall pipe and spillway. Arrow Gear Inc. in background.



PHOTOGRAPH LOG
PARSONS ENGINEERING SCIENCE

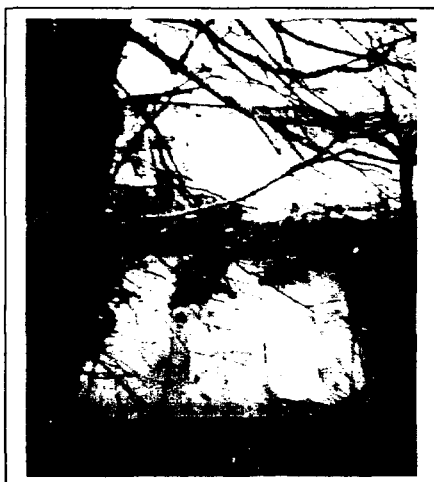
Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

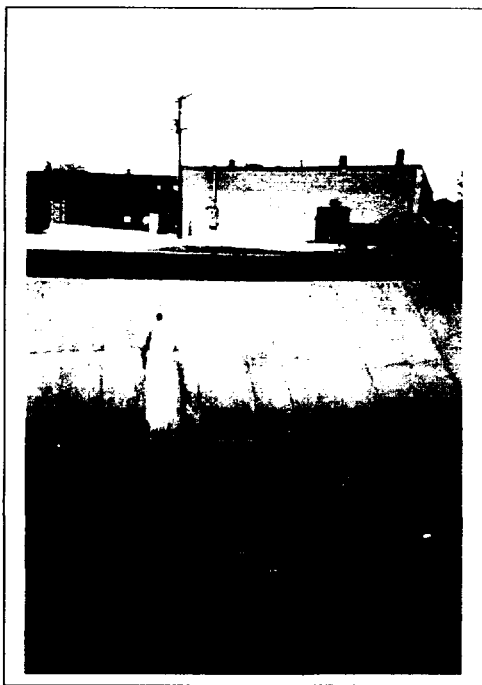
Location:	Downers Grove/Lisle
Direction:	S
Date:	12/4/01
Location/Photo:	57 6-12
Photo By:	S. Nataraj
Description:	Outfall pipe and spillway, east corner of Arrow Gear Inc. in background.



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	58 4-17
Photo By:	D. McGowan
Description:	Outfall pipe and spillway, Julian Services Industries Inc. in background.



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	59 4-16
Photo By:	D. McGowan
Description:	Outfall pipe in concrete reinforced north bank, Julian Service Industries Inc. in background.



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	60 4-15
Photo By:	D. McGowan
Description:	Outfall pipe in concrete reinforced north bank. Delta Industries Inc. in background.



Location:	Downers Grove/Lisle
Direction:	SE
Date:	12/4/01
Location/Photo:	61 6-13
Photo By:	S. Nataraj
Description:	Outfall pipe from concrete reinforced south bank. Belmont Ave. in background.



Location:	Downers Grove/Lisle
Direction:	N
Date:	12/4/01
Location/Photo:	62 4-12
Photo By:	D. McGowan
Description:	Belmont Ave. (right) drainage culvert connection.



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

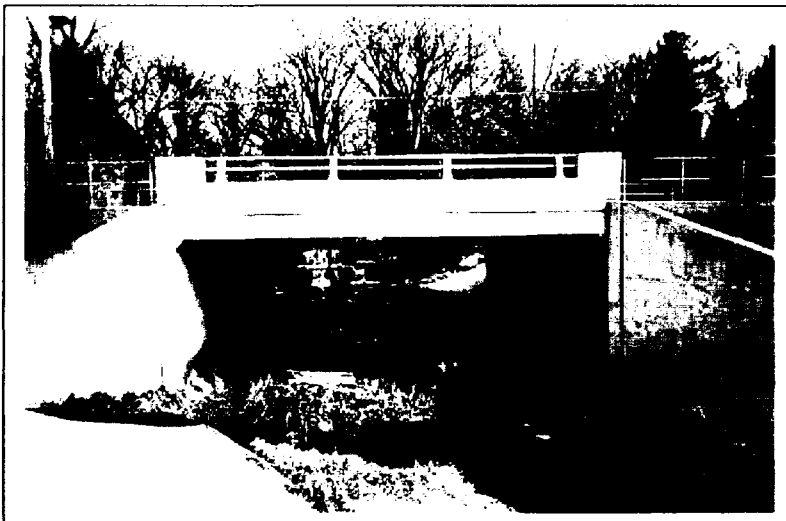
Direction: SE

Date: 12/4/01

Location/Photo: 63 6-15

Photo By: S. Nataraj

Description: Outfall pipe from Belmont Ave. and manhole along side drainage culvert.



Location: Downers Grove/Lisle

Direction: E

Date: 12/4/01

Location/Photo: 64 6-24

Photo By: D. McGowan

Description: Belmont Ave. bridge.



Location: Downers Grove/Lisle

Direction: N

Date: 12/4/01

Location/Photo: 65 4-10

Photo By: D. McGowan

Description: Belmont Ave. drainage culvert with manhole in background. Belmont Ave. bridge on left. sheet piling center to lower right.



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk - Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: W

Date: 12/6/01

Location/Photo: 66 5-15

Photo By: D. McGowan

Description: Cistern in Downers Grove Park District property at the corner of Belmont Ave. and Curtiss St. One 4" pipe enters from the west.



Location: Downers Grove/Lisle

Direction: E

Date: 12/6/01

Location/Photo: 67 5-20

Photo By: D. McGowan

Description: Outfall pipe from east bank of creek, located in a residential setting.



Location: Downers Grove/Lisle

Direction: SE

Date: 12/6/01

Location/Photo: 68 5-19

Photo By: D. McGowan

Description: Remains of a concrete weir or bridge abutment associated with the old Downers Grove Sewage Disposal Center. Remains of old settling pond in center left (levee wall).



PHOTOGRAPH LOG

PARSONS ENGINEERING SCIENCE

Creek Walk – Downers Grove/Lisle, Illinois

Project No. 740473

Location: Downers Grove/Lisle

Direction: E

Date: 12/6/01

Location/Photo: 69 5-14

Photo By: D. McGowan

Description: Downers Grove Park District property, formerly the site of the Downers Grove Sewage Disposal Center.



Location: Downers Grove/Lisle

Direction: W

Date: 12/6/01

Location/Photo: 70 5-12

Photo By: D. McGowan

Description: Path leading from open area in photo #69 to the former retention ponds.



LEGEND

———— CREEK

----- INTERMITTENT STREAM

0 800 1600
 SCALE: 1"=800'

FIGURE 1

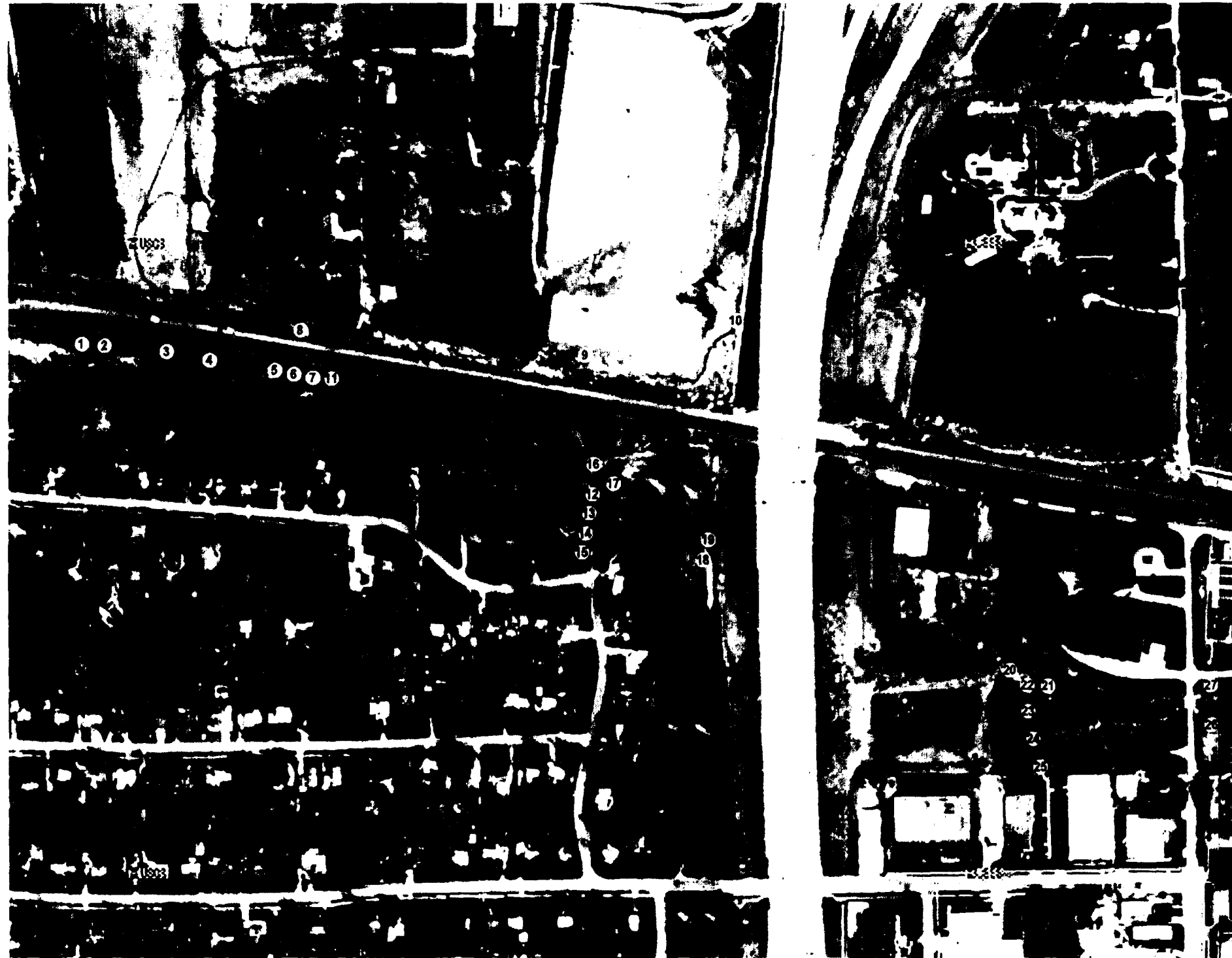
IEPA-DOWNERS GROVE

CREEK WALK REFERENCE MAP

THE PARSONS CORPORATION

DESIGN • RESEARCH • PLANNING

999 OAKMONT PLAZA DRIVE • WESTMONT, ILLINOIS • 630.371.1800



0 400 800
 SCALE: 1"=400'

FIGURE 1A

IEPA-DOWNERS GROVE

PHOTO INDEX MAP

THE PARSONS CORPORATION

DESIGN • RESEARCH • PLANNING

999 OAKMONT PLAZA DRIVE • WESTMONT, ILLINOIS • 630.371.1800



0 400 800
 SCALE: 1"=400'

FIGURE 1B

IEPA-DOWNERS GROVE

PHOTO INDEX MAP

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0 400 800
 SCALE: 1"=400'

FIGURE 1C

IEPA-DOWNERS GROVE

PHOTO INDEX MAP

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